



National Load Despatch Centre

राष्ट्रीय भार प्रेषण केंद्र

GRID CONTROLLER OF INDIA LIMITED

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)

B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 26 August 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
- कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 25.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-अगस्त-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 25 August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-Aug-2023

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	72003	60549	49403	24334	3121	209410
Peak Shortage (MW)	231	24	0	201	150	606
Energy Met (MU)	1584	1462	1299	533	62	4940
Hydro Gen (MU)	392	108	91	133	38	761
Wind Gen (MU)	63	193	135	-	-	391
Solar Gen (MU)*	124.62	49.26	125.05	1.66	0.84	301
Energy Shortage (MU)	1.84	0.53	0.00	1.46	1.66	5.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72829	66558	64098	25037	3176	223936
Time Of Maximum Demand Met	22:17	11:05	12:27	19:54	18:21	12:26

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.027	0.00	0.00	5.29	5.29	82.35	12.36

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	14724	0	317.4	184.4	0.1	123	0.00
	Haryana	11174	0	238.3	168.4	-0.4	191	0.00
	Rajasthan	15672	0	337.6	98.3	-5.6	288	0.00
	Delhi	6185	0	125.5	112.4	-1.7	106	0.00
	UP	23945	0	430.3	196.7	-1.7	588	0.38
	Uttarakhand	2059	0	45.4	20.6	0.0	120	0.97
	HP	1557	0	29.8	-0.1	-0.3	80	0.02
	J&K(UT) & Ladakh(UT)	2405	75	49.5	25.1	0.3	353	0.47
	Chandigarh	335	0	6.7	6.5	0.2	38	0.00
Railways NR ISTS	165	0	3.3	3.4	0.0	29	0.00	
WR	Chhattisgarh	5258	0	120.4	58.5	-1.1	235	0.00
	Gujarat	21473	0	451.1	196.1	-2.3	726	0.00
	MP	11845	0	255.2	119.9	-3.7	699	0.00
	Maharashtra	25500	0	560.8	203.0	-5.0	591	0.53
	Goa	644	0	13.6	13.4	-0.2	29	0.00
	DNHDDPDCL	1305	0	30.2	30.5	-0.3	0	0.00
	AMNSIL	858	0	18.6	8.6	0.4	333	0.00
	BALCO	521	0	12.4	12.4	0.0	0	0.00
	SR	Andhra Pradesh	12329	0	243.6	98.9	-0.6	491
Telangana		14361	0	275.7	142.1	-1.2	612	0.00
Karnataka		16950	0	295.5	120.7	0.3	1193	0.00
Kerala		4277	0	88.6	71.6	1.7	341	0.00
Tamil Nadu		17715	0	385.4	184.4	2.2	757	0.00
Puducherry		460	0	10.7	10.0	0.0	32	0.00
ER	Bihar	6332	0	124.6	122.4	-2.6	323	0.00
	DVC	3273	0	74.7	-34.7	-0.4	471	0.00
	Jharkhand	1600	201	37.9	30.0	2.6	175	1.46
	Odisha	5619	0	111.5	34.6	-0.9	385	0.00
	West Bengal	8430	0	182.9	73.9	-3.6	213	0.00
	Sikkim	85	0	1.1	1.1	0.0	27	0.00
	Railways ER ISTS	17	0	0.1	0.1	0.0	12	0.00
NER	Arunachal Pradesh	158	0	2.8	2.4	-0.1	90	0.00
	Assam	2075	100	40.7	31.5	2.0	243	0.93
	Manipur	194	0	2.6	2.7	-0.1	13	0.00
	Meghalaya	312	30	5.6	0.9	-0.2	37	0.73
	Mizoram	115	0	1.8	1.5	-0.8	14	0.00
	Nagaland	159	0	2.9	2.6	0.0	4	0.00
Tripura	289	0	5.2	5.2	-0.2	28	0.00	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	30.4	10.6	-23.7	-25.7
Day Peak (MW)	1911.0	475.0	-1145.0	-1427.4

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	253.2	-292.3	209.1	-154.4	-15.7	0.0
Actual(MU)	218.6	-303.5	243.8	-148.9	-14.3	-4.3
O/D/U/D(MU)	-34.7	-11.2	34.7	5.5	1.3	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2887	10742	5508	2500	305	21941	44
State Sector	4535	12904	6431	3850	129	27849	56
Total	7422	23646	11939	6350	434	49790	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	780	1418	664	609	16	3486	66
Lignite	26	11	43	0	0	80	2
Hydro	392	108	91	133	38	761	14
Nuclear	29	52	46	0	0	127	2
Gas, Naptha & Diesel	32	51	6	0	29	117	2
RES (Wind, Solar, Biomass & Others)	193	244	287	3	1	728	14
Total	1451	1883	1137	745	83	5299	100

Share of RES in total generation (%)	13.33	12.94	25.24	0.39	1.01	13.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.31	21.40	37.30	18.21	46.78	30.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.073

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	223936	12:26	80
Non-Solar hr	213846	19:35	1217

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)

Date of Reporting: 26-Aug-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	801	0.0	18.6	-18.6
2	HVDC	PUSAULI B/B	-	0	94	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	90	481	0.0	6.1	-6.1
4	765 kV	SASARAM-FATEHPUR	1	0	325	0.0	5.9	-5.9
5	765 kV	GAYA-BALIA	1	71	482	0.0	3.9	-3.9
6	400 kV	PUSAULI-VARANASI	1	0	78	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	92	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	855	0.0	14.2	-14.2
9	400 kV	PATNA-BALIA	2	0	539	0.0	10.0	-10.0
10	400 kV	NAUBATPUR-BALIA	2	0	558	0.0	10.0	-10.0
11	400 kV	BIHARSHARIFF-BALIA	2	74	207	0.0	1.9	-1.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	525	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	37	218	0.0	1.7	-1.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	129	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	87.4	-86.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1650	0	24.2	0.0	24.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	665	1328	0.0	7.0	-7.0
3	765 kV	JHARSUGUDA-DURG	2	0	355	0.0	4.4	-4.4
4	400 kV	JHARSUGUDA-RAIGARH	4	108	448	0.0	4.6	-4.6
5	400 kV	RANCHI-SIPAT	2	100	383	0.0	2.2	-2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	178	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	80	7	0.9	0.0	0.9
ER-WR						25.0	20.9	4.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	762	0.0	10.4	-10.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2376	0.0	41.6	-41.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2670	0.0	47.9	-47.9
4	400 kV	TALCHER-I/C	2	153	1083	0.0	8.9	-8.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	99.9	-99.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	99	169	0.0	1.1	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	257	141	1.4	0.0	1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	45	36	0.0	0.0	0.0
ER-NER						1.4	1.1	0.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	15.2	-15.2
NER-NR						0.0	15.2	-15.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4033	0.0	74.5	-74.5
2	HVDC	VINDHYACHAL B/B	-	442	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	787	2000	1.7	17.9	-16.2
5	765 kV	GWALIOR-PHAGI	2	560	1298	2.0	11.7	-9.7
6	765 kV	JABALPUR-ORAI	2	266	800	0.0	9.6	-9.6
7	765 kV	GWALIOR-ORAI	1	804	0	12.8	0.0	12.8
8	765 kV	SATNA-ORAI	1	0	872	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1031	512	7.5	2.2	5.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2642	0.0	35.6	-35.6
11	400 kV	ZERDA-KANKROLI	1	301	26	3.2	0.0	3.1
12	400 kV	ZERDA-BHINMAL	1	608	96	5.6	0.2	5.4
13	400 kV	VINDHYACHAL -RIHAND	1	950	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUJALPUR	2	371	486	2.9	2.4	0.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	165	0	2.4	0.0	2.4
18	220 kV	MALANPUR-AURAIYA	1	129	0	1.7	0.0	1.7
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						73.3	197.4	-124.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	15.3	-15.3
2	HVDC	RAIGARH-PUGALUR	2	0	6025	0.0	97.3	-97.3
3	765 kV	SOLAPUR-RAICHUR	2	554	2650	0.4	28.1	-27.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3326	0.0	55.2	-55.2
5	400 kV	KOLHAPUR-KUDGI	2	1384	0	17.9	0.0	17.9
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	117	2.3	0.0	2.3
WR-SR						20.6	195.8	-175.2

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	662	619	642	15.41	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1012	0	517	12.41	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	107	-19	48	1.15	
	NER	132kV GELEPHU-SALAKATI	16	7	13	0.32	
	NER	132kV MOTANGA-RANGIA	60	38	46	1.11	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-10	0	17	0.40	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	485	365	424	10.18	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-963	-808	-873	-20.96	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1427	-802	-1069	-25.66	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	182	0	-114	-2.74	

